ENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	: 18 Rec'd	PUTTO 0 2 SEP 2004 PCT/EP2	2003
anslation internat	ENT COOPERATION		
aslatie	PCT		
INTERNAT	IONAL PRELIMINARY EXA	MINATION REPORT	
	(PCT Article 36 and Rule	e 70)	
Applicant's or agent's file reference 21590 WO-WN	FOR FURTHER ACTION See Prelin	Notification of Transmittal of Inte	rnatio EA/4
International application No. PCT/EP2003/002198	International filing date (day/month/y 04 March 2003 (04.03.2003		2002]
International Patent Classification (IPC) or C01B 33/14, C09C 1/28, 3/00,	national classification and IPC C01B 13/32, 33/113		
Applicant	ROCHE DIAGNOSTICS GM	мвн	
This report is also accompanied and are the basis 70.16 and Section 607 of the	of5 sheets, including this	description, claims and/or drawings which he rectifications made before this Authority	nave l
 This report contains indications report Basis of the report 			
П Priority			
	nt of opinion with regard to novelty, inve	entive step and industrial applicability	
IV Lack of unity of	invention		
V Reasoned statem citations and exp	ent under Article 35(2) with regard to no lanations supporting such statement	ovelty, inventive step or industrial applicab	ili ty ;
VI Certain documen	its cited		
VII Certain defects in the international application			
VIII Certain observat	ions on the international application		
	·		
Date of submission of the demand	Date of com	mpletion of this report	
19 August 2003 (19.	08.2003)	27 February 2004 (27.02.2004)	
Name and mailing address of the IPEA/	EP Authorized	l officer	
Facsimile No.	Telephone N	No.	



Internationa ication No.
PCT/EP2003/002198

I. Basis of the report					
1. W	/ith rega	ard to the elements of the international application:*			
\triangleright	d the	international application as originally filed			
Ď	the	description:			
ک	pag	1.00	, as originally filed		
	pag	ges	, filed with the demand		
	pag	المرابعة الم	the letter of		
. 12	₹ the	c claims:			
<u> </u>	pag	ges 1-12	, as originally filed		
	pag		nended (together with any statement under Article 19		
		ges	, filed with the demand		
	-	ges, filed with	the letter of		
Г	₹ the	e drawings:			
		ges 1-9	, as originally filed		
ļ		ges	, filed with the demand		
1		ges, filed with			
_		sequence listing part of the description:			
			se originally filed		
		gesges	, as originally fried		
	_	ges, filed with			
ti 7	the interrrrhese electric that the the the the the the the the the th	gard to the language, all the elements marked above were available or national application was filed, unless otherwise indicated under this ite ements were available or furnished to this Authority in the following late language of a translation furnished for the purposes of international ate language of publication of the international application (under Rule ate language of the translation furnished for the purposes of internation 55.3). The gard to any nucleotide and/or amino acid sequence disclosed that are examination was carried out on the basis of the sequence listing: contained in the international application in written form. The led together with the international application in computer readable for urnished subsequently to this Authority in written form. The statement that the subsequently furnished written sequence international application as filed has been furnished. The statement that the information recorded in computer readable form.	search (under Rule 23.1(b)). 48.3(b)). onal preliminary examination (under Rule 55.2 and/ in the international application, the international orm.		
	Ti be Replace in this i and 70.1		ule 70.2(c)).** conse to an invitation under Article 14 are referred to since they do not contain amendments (Rule 70.16		
**,	Any rep	lacement sheet containing such amendments must be referred to under	r item I and annexed to this report.		

Internationa	lication No.
PCT/EP	3/02198

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement
	· · · · · · · · · · · · · · · · · · ·

1.	Statement			
	Novelty (N)	Claims	1-12	YES
		Claims		NO NO
	Inventive step (IS)	Claims	1-12	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1-12	YES
		Claims		NO NO

2. Citations and explanations

This report makes reference to the following document:
D1 is not cited in the international search report. A copy
of the document is appended.

D1: EP 0 658 525 A

1. The prior art discloses the use of polyhalogenated metal alkylalkoxy compounds for producing water-repellent films (see D2, example 1) from which the subject matter of claim 1 differs in that the polyhalogenated metal alkylalkoxy compound is used together with the metal oxide precursor in a sol-gel process. The end product differs accordingly in that it has polyhalogenated compounds both within the particle and on its surface.

The subject matter of claims 1 to 8 is therefore novel (PCT Article 33(2)).

2. The problem to be solved with the distinguishing feature (see point 1 above) can be regarded as that of developing a method with which hydrophobic and oleophobic dyes can be incorporated into metal oxide particles.

- 3.1 The solution as proposed in claim 1 of the present application involves an inventive step for the following reasons (PCT Article 33(3)):

 The problem to be solved with the distinguishing feature cannot be derived from the available prior art.
- 3.2 The same arguments apply mutatis mutandis to claim 8, and this claim therefore also involves an inventive step.
- 4.1 Claims 2 to 7 are dependent on claim 1 and therefore also meet the PCT requirements with regard to novelty and inventive step.
- 4.2 Claims 9 to 12 are dependent on claim 8 and therefore also meet the PCT requirements with regard to novelty and inventive step.